

*Amra*

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/529,708  
Source: PC  
Date Processed by STIC: 6/14/06

# ***ENTERED***

IAP7 Rec'd PCT/PTO 20 JUN 2006'



PCT

## RAW SEQUENCE LISTING

DATE: 06/14/2006

PATENT APPLICATION: US/10/529,708

TIME: 10:21:17

Input Set : E:\FP0302\US25.txt

Output Set: N:\CRF4\06142006\J529708.raw

3 <110> APPLICANT: FibroGen, Inc.  
 5 <120> TITLE OF INVENTION: DRY TISSUE SEALANT COMPOSITIONS  
 7 <130> FILE REFERENCE: FP0302 US  
 9 <140> CURRENT APPLICATION NUMBER: 10/529,708  
 C--> 10 <141> CURRENT FILING DATE: 2005-03-29  
 12 <150> PRIOR APPLICATION NUMBER: 60/415,309  
 13 <151> PRIOR FILING DATE: 2002-09-30  
 15 <150> PRIOR APPLICATION NUMBER: PCT/US2003/031006  
 16 <151> PRIOR FILING DATE: 2003-09-30  
 18 <160> NUMBER OF SEQ ID NOS: 4  
 20 <170> SOFTWARE: PatentIn version 3.3  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 1313  
 24 <212> TYPE: PRT  
 25 <213> ORGANISM: Homo sapiens  
 27 <400> SEQUENCE: 1  
 29 Gln Tyr Asp Ser Tyr Asp Val Lys Ser Gly Val Ala Val Gly Gly Leu  
 30 1 5 10 15  
 33 Ala Gly Tyr Pro Gly Pro Ala Gly Pro Pro Gly Pro Pro Gly Pro Pro  
 34 20 25 30  
 37 Gly Thr Ser Gly His Pro Gly Ser Pro Gly Ser Pro Gly Tyr Gln Gly  
 38 35 40 45  
 41 Pro Pro Gly Glu Pro Gly Gln Ala Gly Pro Ser Gly Pro Pro Gly Pro  
 42 50 55 60  
 45 Pro Gly Ala Ile Gly Pro Ser Gly Pro Ala Gly Lys Asp Gly Glu Ser  
 46 65 70 75 80  
 49 Gly Arg Pro Gly Arg Pro Gly Glu Arg Gly Leu Pro Gly Pro Pro Gly  
 50 85 90 95  
 53 Ile Lys Gly Pro Ala Gly Ile Pro Gly Phe Pro Gly Met Lys Gly His  
 54 100 105 110  
 57 Arg Gly Phe Asp Gly Arg Asn Gly Glu Lys Gly Glu Thr Gly Ala Pro  
 58 115 120 125  
 61 Gly Leu Lys Gly Glu Asn Gly Leu Pro Gly Glu Asn Gly Ala Pro Gly  
 62 130 135 140  
 65 Pro Met Gly Pro Arg Gly Ala Pro Gly Glu Arg Gly Arg Pro Gly Leu  
 66 145 150 155 160  
 69 Pro Gly Ala Ala Gly Ala Arg Gly Asn Asp Gly Ala Arg Gly Ser Asp  
 70 165 170 175  
 73 Gly Gln Pro Gly Pro Pro Gly Pro Pro Gly Thr Ala Gly Phe Pro Gly  
 74 180 185 190  
 77 Ser Pro Gly Ala Lys Gly Glu Val Gly Pro Ala Gly Ser Pro Gly Ser  
 78 195 200 205  
 81 Asn Gly Ala Pro Gly Gln Arg Gly Glu Pro Gly Pro Gln Gly His Ala

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82      210      215      220
85 Gly Ala Gln Gly Pro Pro Gly Pro Pro Gly Ile Asn Gly Ser Pro Gly
86 225      230      235      240
89 Gly Lys Gly Glu Met Gly Pro Ala Gly Ile Pro Gly Ala Pro Gly Leu
90      245      250      255
93 Met Gly Ala Arg Gly Pro Pro Gly Pro Ala Gly Ala Asn Gly Ala Pro
94      260      265      270
97 Gly Leu Arg Gly Gly Ala Gly Glu Pro Gly Lys Asn Gly Ala Lys Gly
98      275      280      285
101 Glu Pro Gly Pro Arg Gly Glu Arg Gly Glu Ala Gly Ile Pro Gly Val
102      290      295      300
105 Pro Gly Ala Lys Gly Glu Asp Gly Lys Asp Gly Ser Pro Gly Glu Pro
106 305      310      315      320
109 Gly Ala Asn Gly Leu Pro Gly Ala Ala Gly Glu Arg Gly Ala Pro Gly
110      325      330      335
113 Phe Arg Gly Pro Ala Gly Pro Asn Gly Ile Pro Gly Glu Lys Gly Pro
114      340      345      350
117 Ala Gly Glu Arg Gly Ala Pro Gly Pro Ala Gly Pro Arg Gly Ala Ala
118      355      360      365
121 Gly Glu Pro Gly Arg Asp Gly Val Pro Gly Gly Pro Gly Met Arg Gly
122      370      375      380
125 Met Pro Gly Ser Pro Gly Gly Pro Gly Ser Asp Gly Lys Pro Gly Pro
126 385      390      395      400
129 Pro Gly Ser Gln Gly Glu Ser Gly Arg Pro Gly Pro Pro Gly Pro Ser
130      405      410      415
133 Gly Pro Arg Gly Gln Pro Gly Val Met Gly Phe Pro Gly Pro Lys Gly
134      420      425      430
137 Asn Asp Gly Ala Pro Gly Lys Asn Gly Glu Arg Gly Gly Pro Gly Gly
138      435      440      445
141 Pro Gly Pro Gln Gly Pro Pro Gly Lys Asn Gly Glu Thr Gly Pro Gln
142      450      455      460
145 Gly Pro Pro Gly Pro Thr Gly Pro Gly Gly Asp Lys Gly Asp Thr Gly
146 465      470      475      480
149 Pro Pro Gly Pro Gln Gly Leu Gln Gly Leu Pro Gly Thr Gly Gly Pro
150      485      490      495
153 Pro Gly Glu Asn Gly Lys Pro Gly Glu Pro Gly Pro Lys Gly Asp Ala
154      500      505      510
157 Gly Ala Pro Gly Ala Pro Gly Gly Lys Gly Asp Ala Gly Ala Pro Gly
158      515      520      525
161 Glu Arg Gly Pro Pro Gly Leu Ala Gly Ala Pro Gly Leu Arg Gly Gly
162      530      535      540
165 Ala Gly Pro Pro Gly Pro Glu Gly Gly Lys Gly Ala Ala Gly Pro Pro
166 545      550      555      560
169 Gly Pro Pro Gly Ala Ala Gly Thr Pro Gly Leu Gln Gly Met Pro Gly
170      565      570      575
173 Glu Arg Gly Gly Leu Gly Ser Pro Gly Pro Lys Gly Asp Lys Gly Glu
174      580      585      590
177 Pro Gly Gly Pro Gly Ala Asp Gly Val Pro Gly Lys Asp Gly Pro Arg
178      595      600      605

```

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```

181 Gly Pro Thr Gly Pro Ile Gly Pro Pro Gly Pro Ala Gly Gln Pro Gly
182      610                      615                      620
185 Asp Lys Gly Glu Gly Gly Ala Pro Gly Leu Pro Gly Ile Ala Gly Pro
186 625                      630                      635                      640
189 Arg Gly Ser Pro Gly Glu Arg Gly Glu Thr Gly Pro Pro Gly Pro Ala
190                      645                      650                      655
193 Gly Phe Pro Gly Ala Pro Gly Gln Asn Gly Glu Pro Gly Gly Lys Gly
194                      660                      665                      670
197 Glu Arg Gly Ala Pro Gly Glu Lys Gly Glu Gly Gly Pro Pro Gly Val
198                      675                      680                      685
201 Ala Gly Pro Pro Gly Gly Ser Gly Pro Ala Gly Pro Pro Gly Pro Gln
202      690                      695                      700
205 Gly Val Lys Gly Glu Arg Gly Ser Pro Gly Gly Pro Gly Ala Ala Gly
206 705                      710                      715                      720
209 Phe Pro Gly Ala Arg Gly Leu Pro Gly Pro Gly Ser Asn Gly Asn
210                      725                      730                      735
213 Pro Gly Pro Pro Gly Pro Ser Gly Ser Pro Gly Lys Asp Gly Pro Pro
214                      740                      745                      750
217 Gly Pro Ala Gly Asn Thr Gly Ala Pro Gly Ser Pro Gly Val Ser Gly
218                      755                      760                      765
221 Pro Lys Gly Asp Ala Gly Gln Pro Gly Glu Lys Gly Ser Pro Gly Ala
222      770                      775                      780
225 Gln Gly Pro Pro Gly Ala Pro Gly Pro Leu Gly Ile Ala Gly Ile Thr
226 785                      790                      795                      800
229 Gly Ala Arg Gly Leu Ala Gly Pro Pro Gly Met Pro Gly Pro Arg Gly
230                      805                      810                      815
233 Ser Pro Gly Pro Gln Gly Val Lys Gly Glu Ser Gly Lys Pro Gly Ala
234                      820                      825                      830
237 Asn Gly Leu Ser Gly Glu Arg Gly Pro Pro Gly Pro Gln Gly Leu Pro
238                      835                      840                      845
241 Gly Leu Ala Gly Thr Ala Gly Glu Pro Gly Arg Asp Gly Asn Pro Gly
242      850                      855                      860
245 Ser Asp Gly Leu Pro Gly Arg Asp Gly Ser Pro Gly Gly Lys Gly Asp
246 865                      870                      875                      880
249 Arg Gly Glu Asn Gly Ser Pro Gly Ala Pro Gly Ala Pro Gly His Pro
250                      885                      890                      895
253 Gly Pro Pro Gly Pro Val Gly Pro Ala Gly Lys Ser Gly Asp Arg Gly
254                      900                      905                      910
257 Glu Ser Gly Pro Ala Gly Pro Ala Gly Ala Pro Gly Pro Ala Gly Ser
258                      915                      920                      925
261 Arg Gly Ala Pro Gly Pro Gln Gly Pro Arg Gly Asp Lys Gly Glu Thr
262      930                      935                      940
265 Gly Glu Arg Gly Ala Ala Gly Ile Lys Gly His Arg Gly Phe Pro Gly
266 945                      950                      955                      960
269 Asn Pro Gly Ala Pro Gly Ser Pro Gly Pro Ala Gly Gln Gln Gly Ala
270                      965                      970                      975
273 Ile Gly Ser Pro Gly Pro Ala Gly Pro Arg Gly Pro Val Gly Pro Ser
274                      980                      985                      990
277 Gly Pro Pro Gly Lys Asp Gly Thr Ser Gly His Pro Gly Pro Ile Gly

```

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```

278          995          1000          1005
281 Pro Pro Gly Pro Arg Gly Asn Arg Gly Glu Arg Gly Ser Glu Gly
282      1010          1015          1020
285 Ser Pro Gly His Pro Gly Gln Pro Gly Pro Pro Gly Pro Pro Gly
286      1025          1030          1035
289 Ala Pro Gly Pro Cys Cys Gly Gly Val Gly Ala Ala Ala Ile Ala
290      1040          1045          1050
293 Gly Ile Gly Gly Glu Lys Ala Gly Gly Phe Ala Pro Tyr Tyr Gly
294      1055          1060          1065
297 Asp Glu Pro Met Asp Phe Lys Ile Asn Thr Asp Glu Ile Met Thr
298      1070          1075          1080
301 Ser Leu Lys Ser Val Asn Gly Gln Ile Glu Ser Leu Ile Ser Pro
302      1085          1090          1095
305 Asp Gly Ser Arg Lys Asn Pro Ala Arg Asn Cys Arg Asp Leu Lys
306      1100          1105          1110
309 Phe Cys His Pro Glu Leu Lys Ser Gly Glu Tyr Trp Val Asp Pro
310      1115          1120          1125
313 Asn Gln Gly Cys Lys Leu Asp Ala Ile Lys Val Phe Cys Asn Met
314      1130          1135          1140
317 Glu Thr Gly Glu Thr Cys Ile Ser Ala Asn Pro Leu Asn Val Pro
318      1145          1150          1155
321 Arg Lys His Trp Trp Thr Asp Ser Ser Ala Glu Lys Lys His Val
322      1160          1165          1170
325 Trp Phe Gly Glu Ser Met Asp Gly Gly Phe Gln Phe Ser Tyr Gly
326      1175          1180          1185
329 Asn Pro Glu Leu Pro Glu Asp Val Leu Asp Val Gln Leu Ala Phe
330      1190          1195          1200
333 Leu Arg Leu Leu Ser Ser Arg Ala Ser Gln Asn Ile Thr Tyr His
334      1205          1210          1215
337 Cys Lys Asn Ser Ile Ala Tyr Met Asp Gln Ala Ser Gly Asn Val
338      1220          1225          1230
341 Lys Lys Ala Leu Lys Leu Met Gly Ser Asn Glu Gly Glu Phe Lys
342      1235          1240          1245
345 Ala Glu Gly Asn Ser Lys Phe Thr Tyr Thr Val Leu Glu Asp Gly
346      1250          1255          1260
349 Cys Thr Lys His Thr Gly Glu Trp Ser Lys Thr Val Phe Glu Tyr
350      1265          1270          1275
353 Arg Thr Arg Lys Ala Val Arg Leu Pro Ile Val Asp Ile Ala Pro
354      1280          1285          1290
357 Tyr Asp Ile Gly Gly Pro Asp Gln Glu Phe Gly Val Asp Val Gly
358      1295          1300          1305
361 Pro Val Cys Phe Leu
362      1310
365 <210> SEQ ID NO: 2
366 <211> LENGTH: 1028
367 <212> TYPE: PRT
368 <213> ORGANISM: Homo sapiens
370 <400> SEQUENCE: 2
372 Gly Leu Ala Gly Tyr Pro Gly Pro Ala Gly Pro Pro Gly Pro Pro Gly

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```

373 1          5          10          15
376 Pro Pro Gly Thr Ser Gly His Pro Gly Ser Pro Gly Ser Pro Gly Tyr
377          20          25          30
380 Gln Gly Pro Pro Gly Glu Pro Gly Gln Ala Gly Pro Ser Gly Pro Pro
381          35          40          45
384 Gly Pro Pro Gly Ala Ile Gly Pro Ser Gly Pro Ala Gly Lys Asp Gly
385          50          55          60
388 Glu Ser Gly Arg Pro Gly Arg Pro Gly Glu Arg Gly Leu Pro Gly Pro
389 65          70          75          80
392 Pro Gly Ile Lys Gly Pro Ala Gly Ile Pro Gly Phe Pro Gly Met Lys
393          85          90          95
396 Gly His Arg Gly Phe Asp Gly Arg Asn Gly Glu Lys Gly Glu Thr Gly
397          100         105         110
400 Ala Pro Gly Leu Lys Gly Glu Asn Gly Leu Pro Gly Glu Asn Gly Ala
401          115         120         125
404 Pro Gly Pro Met Gly Pro Arg Gly Ala Pro Gly Glu Arg Gly Arg Pro
405          130         135         140
408 Gly Leu Pro Gly Ala Ala Gly Ala Arg Gly Asn Asp Gly Ala Arg Gly
409 145          150         155         160
412 Ser Asp Gly Gln Pro Gly Pro Pro Gly Pro Pro Gly Thr Ala Gly Phe
413          165         170         175
416 Pro Gly Ser Pro Gly Ala Lys Gly Glu Val Gly Pro Ala Gly Ser Pro
417          180         185         190
420 Gly Ser Asn Gly Ala Pro Gly Gln Arg Gly Glu Pro Gly Pro Gln Gly
421          195         200         205
424 His Ala Gly Ala Gln Gly Pro Pro Gly Pro Pro Gly Ile Asn Gly Ser
425          210         215         220
428 Pro Gly Gly Lys Gly Glu Met Gly Pro Ala Gly Ile Pro Gly Ala Pro
429 225          230         235         240
432 Gly Leu Met Gly Ala Arg Gly Pro Pro Gly Pro Ala Gly Ala Asn Gly
433          245         250         255
436 Ala Pro Gly Leu Arg Gly Gly Ala Gly Glu Pro Gly Lys Asn Gly Ala
437          260         265         270
440 Lys Gly Glu Pro Gly Pro Arg Gly Glu Arg Gly Glu Ala Gly Ile Pro
441          275         280         285
444 Gly Val Pro Gly Ala Lys Gly Glu Asp Gly Lys Asp Gly Ser Pro Gly
445          290         295         300
448 Glu Pro Gly Ala Asn Gly Leu Pro Gly Ala Ala Gly Glu Arg Gly Ala
449 305          310         315         320
452 Pro Gly Phe Arg Gly Pro Ala Gly Pro Asn Gly Ile Pro Gly Glu Lys
453          325         330         335
456 Gly Pro Ala Gly Glu Arg Gly Ala Pro Gly Pro Ala Gly Pro Arg Gly
457          340         345         350
460 Ala Ala Gly Glu Pro Gly Arg Asp Gly Val Pro Gly Gly Pro Gly Met
461          355         360         365
464 Arg Gly Met Pro Gly Ser Pro Gly Gly Pro Gly Ser Asp Gly Lys Pro
465          370         375         380
468 Gly Pro Pro Gly Ser Gln Gly Glu Ser Gly Arg Pro Gly Pro Pro Gly
469 385          390         395         400

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/529,708

DATE: 06/14/2006  
TIME: 10:21:18

Input Set : E:\FP0302 US.ST25.txt  
Output Set: N:\CRF4\06142006\J529708.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/529,708

DATE: 06/14/2006

TIME: 10:21:18

Input Set : E:\FP0302 US.ST25.txt

Output Set: N:\CRF4\06142006\J529708.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date